



NATIONAL DRUG FILE (NDF)

TECHNICAL MANUAL

Version 4.0
October 1998

(Revised May 2010)

Revision History

The table below lists changes made since the initial release of this manual. Each time this manual is updated, the Title Page lists the new revised date and this page describes the changes. Either update the existing manual with the Change Pages document, or replace it with the updated manual.

Note: The Change Pages document may include unedited pages needed for two-sided copying. Only edited pages display the patch number and revision date in the page footer.

Date	Revised Pages	Patch Number	Description
05/10	i-ii, 6, 7, 17-18	PSN*4*108	Added routines PSNFDAMG, and PSNMEDG to the list of routines. Routine PSNAPIS was modified. Added new option Display FDA Medication Guide [PSN MED GUIDE]. Added FDA Medication Guide to the Glossary. REDACTED
02/09	6, 10, 10b, 12e-f	PSN*4*169	Added routines PSNEN169 and PSNPO169. Described section added to the VA Product message as part of an NDF Management System change. Updated Notes Regarding Patches section. REDACTED
02/06	6	PSN*4*109	Added routine PSN5067 to the list of routines. REDACTED
08/05	iii, 6, 10b, 12c-d, 15, 21, 22	PSN*4*101	Added routines PSNVUID and PSNPREDs, an explanation of the data standardization project in a new section called Notes regarding Patches; moved changes to CS Federal Schedule field (patch PSN*4*65) to new section; updated Table of Contents, Glossary and Index. REDACTED
10/04	i, 2, 6, 8	PSN*4*80	Added routines and a reference to the <i>Pharmacy Re-Engineering (PRE) Application Program Interface (API) Manual</i> created for the Pharmacy Re-Engineering (PRE) project Encapsulation cycle 1
09/03	7	PSN*4*70	-Added two new options to the list of exported options.
07/03	Title Page, i-ii, 10b	PSN*4*65	- Noted changes to CS Federal Schedule field.
04/03	Title Page, i, 15	PSN*4*20	-Changed the RD access on several files.
04/03	Title Page, i, 6	PSN*4*68	-Added the PSNPPIO routine to the list of routines.

Date	Revised Pages	Patch Number	Description
02/03	Title Page, i-iv, 4a-4d, 6	PSN*4*62	-Replaced the Title Page, Revision History Page, and Table of Contents. -Added the Patient Medication Information (PMI) Sheet enhancement files and printer set-up. -Added print routine to the list of routines.
10/02	Title Page, i-iv, 12, 12a, 12b	PSN*4*64	-Replaced the Title Page (and associated blank page) and the Revision History Page (and associated blank page). -Added page numbers to the Revision History Pages and Table of Contents Pages. - Updated the Electronic MailMan Messages for Drugs Unmatched from the National Drug File.
10/02	Title Page 10, 10a, 10b, 11, 12, 12a, 12b	PSN*4*58	- Replaced the Title Page (and associated blank page) and the Revision History page (and associated blank page after it.) - Updated the Electronic MailMan Messages for Data Update for NDF, Updated Interactions, and Drugs Unmatched from National Drug File. This included new screen captures and required the addition of new pages.
09/01	Title Page 10-12	PSN*4*53	- Replaced the Title Page (and associated blank page) and the Revision History page (and associated blank page after it.) - Added a new Electronic Mail Message for Updated Interactions and added new screen captures for the Electronic Mail Messages for Data Update and Drugs Unmatched from National Drug File.
02/00	6,7,9	PSN*4*22	Added a new option called <i>Inquire to National Files</i> .
10/98			Original Released Technical Manual.

Files

The NATIONAL DRUG file (#50.6) has been redesigned from a file seven multiples deep to a new file structure of four separate files. The new files are the VA PRODUCT file (#50.68), the NDC/UPN file (#50.67), the VA DISPENSE UNIT file (#50.64), and File #50.6, which is now the VA GENERIC file.

The files required to run the NDF software are listed below.

FILE #	NAME	UP DATE DD	SEND SEC. CODE	DATA COMES W/FILE	SITE DATA	RSLV PTS	USER OVER RIDE
50.416	DRUG INGREDIENT	YES	YES	YES	OVER	NO	NO
50.6	VA GENERIC	YES	YES	NO			
50.605	VA DRUG CLASS	YES	YES	YES	OVER	NO	NO
50.606	DOSAGE FORM	YES	YES	YES	OVER	NO	NO
Partial DD:	subDD 50.606	fld: .01					
50.607	DRUG UNITS	YES	YES	YES	OVER	NO	NO
50.608	PACKAGE TYPE	YES	YES	YES	OVER	NO	NO
50.609	PACKAGE SIZE	YES	YES	YES	OVER	NO	NO
50.612	NATIONAL DRUG TRANSLATION	YES	YES	NO			
50.64	VA DISPENSE UNIT	YES	YES	NO	OVER	NO	NO
50.67	NDC/UPN	YES	YES	NO			
50.68	VA PRODUCT	YES	YES	NO			
51.2	MEDICATION ROUTES	YES	YES	NO	MERG	NO	YES
Partial DD:	subDD 51.2	fld: .01					
55.95	DRUG MANUFACTURER	YES	YES	YES	OVER	NO	NO
56	DRUG INTERACTION	YES	YES	NO	OVER	NO	NO
59.7	PHARMACY SYSTEM	YES	YES	NO			
Partial DD:	subDD 59.7	fld: 10					
		fld: 10.1					
		fld: 10.2					
		fld: 11					
		fld: 12					

Templates

Sort	File
PSNFRMSRT	50

Print	File
PSNFRMPRT	50
PSNHEAD	50
PSNLDG1	50
PSNPRINT	50.605
PSNRPT4	50
PSNACTION	56

Routines

The following is a list of routines you will see for NDF when you load the new routine set. The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option XU FIRST LINE PRINT (*First Line Routine Print*) to print a list of just the first line of each PSN* routine.

PSN4P4	PSN4POST	PSN4PRE	PSN50612	PSN50625
PSN50626	PSN50627	PSN5067	PSN50P41	PSN50P4A
PSN50P6	PSN50P65	PSN50P67	PSN50P68	PSN56
PSNACT	PSNAPIS	PSNAUTO	PSNBLD	PSNCLPR
PSNCLS	PSNCMOP	PSNCOMP	PSNDDI1	PSNDEA
PSNDEX	PSNDI	PSNDINT	PSNDRUG	PSNEN169
PSNEXC	PSNFDAMG	PSNFRMLY	PSNHEADR	PSNHELP
PSNHELP1	PSNHFRM	PSNHFRM1	PSNHIT	PSNLDG
PSNLOOK	PSNMCLS	PSNMEDG	PSNMRG	PSNNDC
PSNNDC1	PSNNFL	PSNNFL1	PSNNGR	PSNOCLS
PSNONDF	PSNOUT	PSNPFN	PSNPO169	PSNPPIO
PSNPPIP	PSNPPIP1	PSNPRE	PSNPRE1	PSNPREDS
PSNPSS	PSNPST	PSNQA	PSNRPT	PSNRPT2
PSNRPT3	PSNSTCK	PSNSTCL	PSNSUPPLY	PSNTER
PSNUPN	PSNVAGN	PSNVER	PSNVFY	PSNVIEW
PSNVOID	PSNXREF			

77 Routines

Exported Options

The National Drug File [PSNMGR] menu, assigned to all users, contains two locked options — *Allow Unmatched Drugs to Be Classed* [PSNSTCL] and *Formulary Report* [PSNFRMLY]. These options are unlocked by the PSNMGR key. This key must be assigned to the package coordinator or his/her designee. Only users having this key will see these options on their menu.

The following are the options exported with NDF version 4.0:

National Drug File V. 4.0 Menu

REMA	Rematch/Match Single Drugs [PSNDRUG]
VER	Verify Matches [PSNVFY]
SVER	Verify Single Match [PSNVER]
MERG	Merge National Drug File Data Into Local File [PSNMRG]
AUTO	Automatic Match of Unmatched Drugs [PSNAUTO]
CLAS	Allow Unmatched Drugs to be Classed [PSNSTCL] [Locked: PSNMGR]
RPRT	National Drug File Reports [PSNSUBM]
LDF	Local Drug File Report [PSNLDG]
VAGN	Report of VA Generic Names from National Drug [PSNVAGN]
ATMP	Report of Attempted Match Drugs [PSNEXC]
PROD	VA Product Names Matched Report [PSNPFN]
NOCL	Local Drugs with No VA Drug Class Report [PSNOCLS]
CLVA	VA Drug Classification [PSNCLS]
DFL	NDF Info from Your Local Drug File [PSNRPT]
SUPL	Supply (XA000) VA Class Report [PSNSUPLY]
MANC	Manually Classed Drugs Report [PSNMCLS]
NMAT	Local Drugs with NO Match to NDF Report [PSNONDF]
*LOCF	Local Formulary Report [PSNFRMLY] [Locked: PSNMGR]
NATF	National Formulary Report [PSNNFL]
DDIN	Drug-Drug Interaction Report [PSNTER]
CMOP	VA Products Marked for CMOP Transmission [PSNCMOP]
PNCL	VA Product Names By Class Report [PSNCLPR]
LDRG	Local Drugs Excluded from Drug-Drug Interactions [PSNODDI]
VDRGVA	Products Excluded from Drug-Drug Interactions [PSNEXMPT]
INQ	Inquiry Options [PSNQUER]
LINQ	Inquire to Local Drug File [PSNVIEW]
**PNIN	Inquire to VA Product Info For Local Drug [PSNLOOK]
NDCU	NDC/UPN Inquiry [PSNUPN]
NAT	Inquire to National Files [PSNACT]
PMIS	Print a PMI Sheet [PSNPMIS]
FDA	Display FDA Medication Guide [PSN MED GUIDE]

* Formerly *Formulary Report*

** Formerly *Lookup National Drug Info in Local File.*

Archiving and Purging

The NDF software contains no archiving or purging capabilities. It is recommended that National Drug File remain online.

Callable Routines

The National Drug File contains one callable routine at the present time. This routine, PSNNGR, is used by the Allergy Tracking System software package. The routine is the actual point of entry.

This routine is to be used in conjunction with the allergies package. It expects an input of PSNDA=internal number in File 50.6 (VA GENERIC file). The routine returns ^TMP("PSN",\$J,IFN)=Primary Ingredient. The IFN is the Internal number from File #50.416 (DRUG INGREDIENTS file) of Primary Ingredient. If PSNDA doesn't exist, PSNID and ^TMP("PSN",\$J) are killed. The variables X,J,K,PSNPN are used and are killed before exiting.

For detailed information on all supported National Drug File APIs, see the *Pharmacy Re-Engineering (PRE) Application Program Interface (API) Manual* posted on the VistA Documentation Library (VDL) at <http://www.va.gov/vdl/>.

External Interfaces

The National Drug File V. 4.0 relies (minimum) on the following external packages. This software is not included in this package and must be installed before this version of NDF is completely functional.

<u>Package</u>	<u>Minimum Version Needed</u>
VA FileMan	21.0
Kernel	8.0
MailMan	7.1
Pharmacy Data Management	1.0
National Drug File	3.18
Adverse Reaction Tracking	4.0
Consolidated Mail Outpatient Pharmacy	2.0
Decision Support System	3.0
Drug Accountability	3.0
Immunology Case Registry	2.1
Inpatient Medications	4.5 or greater
Order Entry/Results Reporting	2.5 or greater
Outpatient Pharmacy	6.0 or greater

Glossary

Automatic Match by NDC Matching	Pairing of a drug from the local DRUG file (#50) with a drug in the National Drug File with the same NDC number. This matching will be accomplished when the option <i>Automatic Match of Unmatched Drugs</i> is executed for the first time.
Active Drug	Drugs which contain no inactivation date in the INACTIVE DATE field (#100) local DRUG file (#50).
API	Application Programmer Interface.
DEA, SPECIAL HDLG Field	Field #3. A field in the local DRUG file (#50). It contains one or more codes representing special characteristics of a product.
DRUG File	See Local DRUG file.
DRUG INGREDIENTS File	File #50.416. A file that contains individual generic drugs which are components of various drug products.
Error	In the National Drug File (NDF) software, an error is an entry in the NATIONAL DRUG TRANSLATION file (#50.12) that does not have a match in the local DRUG file (#50).
FDA Medication Guide	Paper handouts that come with many prescription medicines given to the patient. The guides address issues that are specific to particular drugs and drug classes, and contain FDA-approved information that can help patients avoid serious adverse events.
FSN	Federal Stock Number. A unique identifying number assigned by the Federal Supply System to a product

	(drug, supply, food item, etc.) for ordering and accounting purposes. Synonymous with the National Stock Number (NSN). This is one of the fields in the local DRUG file (#50).
Local DRUG File (#50)	This file contains the local GENERIC NAME (#.01), INACTIVE DATE (#100), DEA, SPECIAL HDLG (#3), and NDC fields, as well as others. NDF software attempts to match products from this file with products in the VA GENERIC file (#50.6) and the VA PRODUCT file (#50.58).
Manually Classed Drug	A drug from the local DRUG file (#50) which could not be matched, but has been assigned a VA Drug Classification through the use of the <i>Allow Unmatched Drugs to Be Classed</i> menu option.
Manufacturer Code	The first portion of the NDC Number (the first 4-6 digits). Identifies the manufacturer of the product.
NATIONAL DRUG File (#50.6)	This file contains a list of available drug products. It includes specific information for each product, including trade name, NDC number, manufacturer, VA Drug Class code, dosage form, route of administration, strength, units, ingredients, ingredient strength and units, package code, package size, package type, VA Product Name, and VA generic name. NDF software attempts to match products from this file with products in the local DRUG file (#50).
National Drug Identifier	A unique, HL7 compatible code assigned to all products marked for CMOP transmission. This code is utilized to transmit VA Print name and dispense unit from VistA to the vendor system.